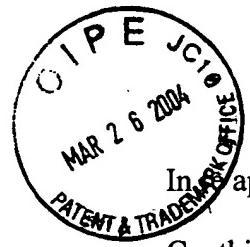


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of:

Cynthia B. Robinson, *et al.*

Application No. 10/698,073

Filed: October 29, 2003

For: **COMBINATION OF
DEHYDROEPIANDROSTERONE OR
DEHYDROEPIANDROSTERONE-
SULFATE WITH AN ANTI-IGE
ANTIBODY FOR TREATMENT OF
ASTHMA OR CHRONIC
OBSTRUCTIVE PULMONARY
DISEASE**

Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Atty. Docket: 05882.0078.NPUS01

Information Disclosure Statement

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed;
 - a. Within three months of the U.S. filing date of a national application other than a continued prosecution application under §1.53(d);
 - b. Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
 - c. Before the mailing date of a first Office Action on the merits;
 - d. Before the mailing of a first Office Action after filing of a request for continued examination under § 1.115.

No statement under 37 C.F.R. § 1.97(e) or fee is required.

or;

- 2. This Information Disclosure Statement is being filed after the period specified in paragraph 1(a)-1(d) above, but before the mailing date of a Final Rejection or Notice of Allowance, or action that otherwise closes prosecution in the application, and
 - a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or

- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
37 C.F.R. § 1.97(e)(2), or
- c. Attached is our Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p).
3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. Attached is our Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(i), and
- a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
37 C.F.R. § 1.97(e)(2).
4. Relevance of the non-English language document(s) is discussed in the present specification.

Applicants: Cynthia B. Robinson, *et al.*
Application No. 10/698,073

5. The document(s) was/were cited in a corresponding foreign application. An English language version of the foreign search report is attached for the Examiner's information.
6. A concise explanation of the relevance of the non-English language document(s) appears below:
7. The Examiner's attention is directed to co-pending U.S. Patent Application No. _____, filed _____, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.
8. Copies of the documents were cited by or submitted to the Office in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038 referencing docket number 05882.0078.NPUS01.

Respectfully submitted,

Date: March 26, 2004


Albert P. Halluin (Reg. No. 25,227)

Robin C. Chiang (Reg. No. 46,619)

HOWREY SIMON ARNOLD & WHITE, LLP
301 Ravenswood Avenue
Box No. 34
Menlo Park, CA 94025
(650) 463-8109

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO.

02486.0078.NPUS01

APPLICATION NO.

10/698,073

APPLICANT

Cynthia B. Robinson, et al.

FILING DATE

October 29, 2003

GROUP

Not yet Assigned



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1.	4,393,066	Jul. 1983	Garrett et al.			
	2.	4,499,064	Feb. 1985	Shive			
	3.	4,575,498	Mar. 1986	Holmes et al.			
	4.	4,628,052	Dec. 1986	Peat			
	5.	4,920,115	Apr. 1990	Nestler et al.			
	6.	4,931,441	Jun. 1990	Lawrence			
	7.	4,985,443	Jan. 1991	Montes			
	8.	5,021,417	Jun. 1991	Prost			
	9.	5,059,595	Oct. 1991	Le Grazie			
	10.	5,077,284	Dec. 1991	Loria et al.			
	11.	5,110,810	May 1992	Eich et al.			
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	13.	5,162,198	Nov. 1992	Eich et al.			
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	22.	5,489,581	Feb. 1996	Daynes et al.			
	23.	5,527,789	Jun. 1996	Nyce			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i> PTO FORM 1449		ATTY. DOCKET NO. 02486.0078.NPUS01	APPLICATION NO. 10/698,073
		APPLICANT Cynthia B. Robinson, et al.	
		FILING DATE October 29, 2003	GROUP Not yet Assigned

	24.	5,532,230	Jul. 1996	Daynes et al.				
	25.	5,538,734	Jul. 1996	Le Grazie				
	26.	5,543,144	Aug. 1996	Chang				
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	28.	5,610,140	Mar. 1997	Goodfellow et al.				
	29.	5,635,496	Jun. 1997	Daynes et al.				
	30.	5,653,980	Aug. 1997	Hellman				
	31.	5,660,835	Aug. 1997	Nyce				
	32.	5,686,438	Nov. 1997	Daynes et al.				
	33.	5,703,063	Dec. 1997	Chasalow, et al.				
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	38.	5,945,294	Aug. 1999	Frank et al.				
	39.	5,948,434	Sep. 1999	Labrie				
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	41.	5,994,511	Nov. 1999	Lowman et al.				
	42.	6,087,351	Jul. 2000	Nyce				
	43.	6,093,706	Jul. 2000	Zeligs				
	44.	2002/0042401	Apr. 2002	Ferguson et al.				
	45.	2003/0013772	Jan. 2003	Murphy et al.				
	46.	2003/0138434	Jul. 2003	Campbell et al.				
	47.	2003/0139331	Jul. 2003	Martin et al.				

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		Cynthia B. Robinson, et al.	
		FILING DATE	GROUP
		October 29, 2003	Not yet Assigned

FOREIGN PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	48. <input checked="" type="checkbox"/>	WO 93/16704		PCT				
	49. <input checked="" type="checkbox"/>	WO 96/16680		PCT				
	50. <input checked="" type="checkbox"/>	WO 97/48367		PCT				
	51. <input checked="" type="checkbox"/>	WO 98/03180		PCT				
	52. <input checked="" type="checkbox"/>	WO 00/54763		PCT				
	53. <input checked="" type="checkbox"/>	WO 01/015745		PCT				
	54. <input checked="" type="checkbox"/>	WO 02/069955		PCT				
	55. <input checked="" type="checkbox"/>	WO 02/85296		PCT				
	56. <input checked="" type="checkbox"/>	WO 03/072572		PCT				
	57. <input checked="" type="checkbox"/>	WO 04/014993 A2		PCT				

OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	58. <input checked="" type="checkbox"/>	Araneo et al., "Dehydroepiandrosterone Reduces Progressive Dermal Ischemia Caused by Thermal Injury", <i>J. Surg. Res.</i> 59(2):250-62 (1995).
	59. <input checked="" type="checkbox"/>	Bonnett et al., "Dehydroepiandrosterone (DHEA) prevents and reverses chronic hypoxic pulmonary hypertension," <i>PNAS</i> 100(16):9488-93 (2003).
	60. <input checked="" type="checkbox"/>	Budavari, <i>The Merck Index</i> 11 th ed., 1989, pp. 660-661, monograph 4141.
	61. <input checked="" type="checkbox"/>	Coleridge et al., "Intravenous aminophylline confers no benefit in acute asthma treated with intravenous steroids and inhaled bronchodilators", <i>Aust. N.Z. J. Med.</i> 23:348-54 (1993).
	62. <input checked="" type="checkbox"/>	Dashtaki et al., " Dehydroepiandrosterone and Analogs Inhibit DNA Binding of AP-1 and Airway Smooth Muscle Proliferation", <i>J. Pharmacol. Exp. Thera.</i> 285(2):876-83 (1998).
	63. <input checked="" type="checkbox"/>	Dompeling et al., "Treatment with Inhaled Steroids in Asthma and Chronic Bronchitis: Long Term Compliance and Inhaler Technique", <i>Family Practice</i> 9(2):161-6 (1992).
	64. <input checked="" type="checkbox"/>	Dunn et al., "Dehydroepiandrosterone sulphate concentrations in asthmatic patients: pilot study," <i>N.Z. J. Med.</i> 97(768):805-8 (1984).
	65. <input checked="" type="checkbox"/>	Duplantier et al., Novel pharmacological approaches to the treatment of asthma: status and potential of therapeutic classes", <i>DDT</i> 1(5):199-207 (1996).

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LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		ATTY. DOCKET NO. 02486.0078.NPUS01	APPLICATION NO. 10/698,073
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		FILING DATE October 29, 2003	GROUP Not yet Assigned

66.	X	Dworski <i>et al.</i> , "Conspectus: Inhaled Steroids in Asthma", <i>Comprehensive Therapy</i> , 18:3 (1992).
67.	X	Fehér <i>et al.</i> , "Adrenocortical Function in Bronchial Asthma", <i>Acta Medica Hungarica</i> 40(2-3):125-32 (1983).
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71.	X	Hummel <i>et al.</i> , "Comparison of oral-steroid sparing by high-dose and low-dose inhaled steroid in maintenance treatment of severe asthma", <i>The Lancet</i> , 340(8834/8835):1483-7 (1992).
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75.	X	Lejeune, "Pathogenesis of Mental Impairment in Trisomy 21", <i>Annales de Génétique</i> , 92:27643 (1996) (French with English Abstract).
76.	X	Mileva <i>et al.</i> , "Androstenedione, DHEA sulfate, cortisol, aldosterone and testosterone in bronchial asthma patients", 07608054 (1990) (Russian with English Abstract).
77.	X	Nakagawa, <i>et al.</i> , "The Properties of Water of Crystallization of Sodium Prasterone Sulfate," <i>Chem. Pharm. Bull</i> 29(5):1466-9 (1981)
78.	X	Nakagawa <i>et al.</i> , "The Grinding and Drying on the Solid State Stability of Sodium Prasterone Sulfate," <i>Chem. Pharm. Bull</i> 30(1):242-8 (1982)
79.	X	Pashko <i>et al.</i> , "Inhibition of 7,12-dimethylbenz(a)anthracene-induced Skin Papillomas and Carcinomas by Dehydroepiandrosterone and 3-beta-methylandrost-5-en-17-one in mice", <i>Cancer Res.</i> 45(1):164-6 (1985).
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81. <input checked="" type="checkbox"/>	Presta <i>et al.</i> , "Humanization of an antibody directed against IgE", <i>J. Immunol.</i> 151(5):2623-32 (1993) (abstract only)
82. <input checked="" type="checkbox"/>	Reed, "Aerosol Steroids as Primary Treatment of Mild Asthma", <i>New England J. Med.</i> , 325(6):425-6 (1991).
83. <input checked="" type="checkbox"/>	Rowe <i>et al.</i> , "Effectiveness of Steroid Therapy in Acute Exacerbations of Asthma: A Meta-analysis", <i>Amer. J. Emergency Med.</i> , 10(4):301-10 (1992).
84. <input checked="" type="checkbox"/>	Saini <i>et al.</i> , "Down-Regulation of Human Basophil IgE and FC ϵ RI α Surface Densities and Mediator Release by Anti-IGE-Infusions Is Reversible in Vitro and In Vivo", <i>J. Immunol.</i> 162:5624-30 (1999)
85. <input checked="" type="checkbox"/>	Sasaki <i>et al.</i> , "Cervical Ripening with Dehydroepiandrosterone Sulphate", <i>Br. J. Obstet. Gynaecol.</i> 89(3):195-8, (1982).
86. <input checked="" type="checkbox"/>	Schulman, "Development of a Monoclonal Anti-Immunoglobulin E Antibody (Omalizumab) for the Treatment of Allergic Respiratory Disorders", <i>Am. J. Respir. Crit. Care Med.</i> 164:S6-11 (2001)
87. <input checked="" type="checkbox"/>	Sciarrà <i>et al.</i> , "Aerosols", Remington's Pharmaceutical Sciences, 18 th ed. (1990), Eds. Gennaro <i>et al.</i> , pp. 1873-5 and 1694-1712.
88. <input checked="" type="checkbox"/>	Sharma <i>et al.</i> , "Screening of potential chemopreventive agents using biochemical markers of carcinogenesis", <i>Cancer Res.</i> 54(22):5848-55 (1994).
89. <input checked="" type="checkbox"/>	Shomali, "The Use of Anti-Aging Hormones. Melatonin. Growth Hormone, Testosterone, and Dehydroepiandrosterone: Consumer Enthusiasm for Unproven Therapies", <i>Md. Med. J.</i> 46(4):181-6 (1997).
90. <input checked="" type="checkbox"/>	Sonka <i>et al.</i> , "Gout and Dehydroepiandrosterone: 3. DHEA Administration", <i>Endokrynologia Polska</i> 24(3):209-18 (1973).
91. <input checked="" type="checkbox"/>	Sur <i>et al.</i> , "Double-blind trial pyridoxine (vitamin B6) in the treatment of steroid-dependent asthma", <i>Ann. Allergy</i> , 70:147-52 (1993).
92. <input checked="" type="checkbox"/>	Schwartz <i>et al.</i> , "Inhibition of 7,12-dimethylbenz[a]anthracene- and urethan-induced lung tumor formation in A/J mice by long-term treatment with dehydroepiandrosterone," <i>Carcinogenesis</i> 2(12):1335-7 (1981)
93. <input checked="" type="checkbox"/>	Van de Graaf <i>et al.</i> , "Respiratory Membrane Permeability and Bronchial Hyperreactivity in Patients with Stable Asthma: Effects of Therapy with Inhaled Steroids", <i>Bronchial Asthma and Respiratory Membrane Permeability</i> 143:362-8 (1991).
94. <input checked="" type="checkbox"/>	Van Vollenhoven <i>et al.</i> , "Dehydroepiandrosterone in SLE. Results of a Double-Blind, Placebo-Controlled, Randomized Clinical Trial.", <i>Arthritis Rheum.</i> 38(12): 1826-31 (1995).
95. <input checked="" type="checkbox"/>	Wolkowitz <i>et al.</i> , "Dehydroepiandrosterone Treatment of Depression", <i>Biol. Psychiatry</i> 41(3):311-8. (1997).

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